

# **ABSTRACT**

[1051] A routing graph (e.g., a 2.5-D graph) and a method for generating same is provided for more efficient multiple-layer path searching and routing. Subgraphs are generated for each layer, and then are combined (e.g., through via connections) into a single, multi-layer graph. The resulting 2.5-dimensional graph may be used in VLSI routing, for example, which commonly includes multiple routing layers in a given design space. Each subgraph corresponds to a layer of circuitry and includes segments based on segments from other layers and intersection points of all such segments. Methods of generating subgraph layers are disclosed

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